FEDERAL ITEM IDENTIFICATION GUIDE

COUPLING HALVES AND ADAPTERS, QUICK DISCONNECT

This Reprint replaces FIIG A531T dated September 1, 2006.

Commander

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BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

Approved Item Name	INC
ADAPTER, QUICK DISCONNECT, FIRE HOSE	52821

A metallic/nonmetallic device which is threaded on one end and has a quick disconnect feature on the opposite end. The item is designed to accommodate a fire hose.

COUPLING HALF, QUICK DISCONNECT	18681

A fluid line fitting having a hose, pipe, tube or boss connection, or a through hole to accommodate a BOLT, FLUID PASSAGE on one end. The other end must have an internal or external quick disconnect feature for connecting a mating part to form a quick disconnect coupling assembly. The fitting may incorporate a self-sealing feature for the purpose of automatically shutting off the flow of fluid when disconnected from its mating half. For self-sealing fittings with an external or internal threaded disconnect end, see COUPLING HALF, SELF-SEALING. See also CONNECTOR, MULTIPLE, FLUID PRESSURE LINE.

SECTION I

MRC	Mode Code	Requirements
NAME	D	ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter applicable Item Name Code from the index appearing in this FIIG. (e.g., NAMED18681*)

MATT D MATERIAL

Definition: THE CHEMICAL COMPOUND OR MECHANICAL MIXTURE PROPERTIES OF WHICH THE ITEM IS FABRICATED.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 2 followed by the Mode Code and the applicable Reply Code from Appendix A, Table 1. (e.g.; MATT2XXDALA000; MATT2APDALA000$DCUA000*; MATT2AXDALA000$$DCUA000*)*

MDCL * J MATERIAL DOCUMENT AND CLASSIFICATION

Definition: THE SPECIFICATION, STANDARD, OR MANUFACTURERS REFERENCE, AND THE CLASSIFICATION DESIGNATION, SUCH AS CLASS, CONDITION, TEMPER, AND THE LIKE, THAT IDENTIFIES THE MATERIAL.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 2, followed by the Mode Code, the applicable Reply Codes from Table 1 and 2 below, and the document designator and classification.

(e.g., MDCL2XXJBAQQ-A-200/2 COND CD*; MDCL2APJBAQQ-S-634 COND CD$JBAQQ-S-634, COND CF*; MDCL2AXJBAQQ-A-200/2$$JBAQQ-S-634, COND CD*)

Table 1

REPLY CODE	REPLY (AP33)
G	ASSN STD
B	FED SPEC
C	FED STD
F	MFR REF
D	MIL SPEC
E	MIL STD

MRC	Mode Code	Requirements

Table 2

REPLY CODE	REPLY (AP18)
G	ALL MATERIAL RESPONSES (use only when all material is controlled by the same document and classifications are identical)
A	SINGLE MATERIAL RESPONSE
B	1ST MATERIAL RESPONSE
C	2ND MATERIAL RESPONSE
D	3RD MATERIAL RESPONSE
E	4TH MATERIAL RESPONSE
F	5TH MATERIAL RESPONSE

SFTT * D SURFACE TREATMENT

Definition: THE METALLIC, NONMETALLIC, AND/OR CHEMICAL PROPERTIES WITH WHICH THE ITEM IS PLATED, DIPPED, AND/OR COATED. THE TREATMENT IS DESIGNED TO PROTECT THE SURFACE(S) AND CANNOT BE WIPED OFF.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 2, followed by the Mode Code and the applicable Reply Code from the table below. (e.g., SFTT2AQDCRA000*; SFTT2APDPSA000$$DENA000*; SFTT2BHDPRA000$DENA000*)

REPLY CODE	REPLY (SF01)
ANA000	ANODIZE
CDA000	CADMIUM
CLB000	CERAMIC
CMA000	CHROMATE
CMB000	CHROMATE ZINC
CRA000	CHROMIUM
CUB000	COPPER ALLOY
DCA000	DICHROMATE
ENA000	ENAMEL
NLA000	NICKEL
XXB000	OXIDE
XXA000	OXIDE FILM
PNA000	PAINT
PSA000	PASSIVATE
PHA000	PHOSPHATE
PRA000	PRIMER
SNA000	TIN
VAA000	VARNISH
ZNA000	ZINC

MRC	Mode Code	Requirements
STDC *	J	SURFACE TREATMENT DOCUMENT AND CLASSIFICATION

Definition: THE SPECIFICATION, STANDARD, OR MANUFACTURERS REFERENCE, AND THE CLASSIFICATION DESIGNATION, SUCH AS TYPE, CLASS, GRADE, AND THE LIKE, THAT IDENTIFIES THE SURFACE TREATMENT MATERIAL.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 2, followed by the Mode Code, the applicable Reply Codes from Tables 1 and 2 below, and the document designator and classification.

(e.g., STDC2AAJDAMIL-P-1632, TYPE M, CLASS 2*;

STDC2ABJDAMIL-C-16232, TYPE Z, CLASS Z$$JDAMIL-C-16232, TYPE Z, CLASS Z*;

STDC2XXJDAMIL-C—16232, TYPE Z, CLASS Z$JBAFED-QQ-C-520, TYPE 1, CLASS 11*)

Table 1

REPLY CODE	REPLY (AP33)
G	ASSN STD
B	FED SPEC
C	FED STD
F	MFR REF
D	MIL SPEC
E	MIL STD
H	NATIONAL SPEC

Table 2

REPLY CODE	REPLY (AP39)
G	ALL TREATMENT RESPONSES (use only when all material is controlled by the same document and classifications are identical)
A	SINGLE TREATMENT RESPONSE
B	1ST TREATMENT RESPONSE
C	2ND TREATMENT RESPONSE
D	3RD TREATMENT RESPONSE
E	4TH TREATMENT RESPONSE
F	5TH TREATMENT RESPONSE

MEDA *	D	MEDIA FOR WHICH DESIGNED

Definition: THE TYPE OF MEDIA FOR WHICH THE ITEM IS DESIGNED.

MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 4, followed by the Mode Code and the applicable Reply Codes from Appendix A, Table 3. (e.g., MEDA1ADAAE*; MEDA1BDABB*; MEDA1CDACC*)

CQGM * J MAXIMUM OPERATING PRESSURE

Definition: THE MAXIMUM PRESSURE AT WHICH THE ITEM IS RATED FOR OPERATION.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 4, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., CQGM1AJP3500.0*; CQGM1BJK500.0*; CQGM1CJP3000.0*; CQGM1DJP500.0*)

REPLY CODE	REPLY (AN71)
B	BAR
K	KILOGRAMS PER SQUARE CENTIMETER
L	KILOPASCALS
N	NEWTONS PER SQUARE CENTIMETER
P	POUNDS PER SQUARE INCH

AEHZ * J MAXIMUM OPERATING TEMP

Definition: THE MAXIMUM TEMPERATURE AT WHICH THE ITEM IS RATED TO OPERATE FOR AN EXTENDED PERIOD OF TIME.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 4, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., AEHZ1AJF200.0*; AEHZ1BJC250.0*; AEHZ1CJF500.0*; AEHZ1DJF250.0*)

If the source document indicates a value below zero degrees, precede the entered value with the letter M (minus). (e.g., AEHZ1EJFM50.0*)

REPLY CODE	REPLY (AB36)
C	DEG CELSIUS
F	DEG FAHRENHEIT

STYL L STYLE DESIGNATOR

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

MRC	Mode Code	Requirements

Reply Instructions: Enter the group designator and style number from Appendix B , Reference Drawing Group A. (e.g., STYLLA1*)

CRFY * J FLOW ANGLE

Definition: THE ANGLE THAT THE FLOW IS TURNED FROM THE STRAIGHT FLOW.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CRFYJD45.0*; CRFYJR1.5*)

REPLY CODE	REPLY (AP38)
D	DEGREES
R	RADIANS

ABHP * J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA2.500*; ABHPJAB2.500$$JAC2.562*; ABHPJLA50.8*)

Table 1

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

Table 2

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

CQKS * D MOUNTING FLANGE LOCATION

Definition: INDICATES THE LOCATION OF THE MOUNTING FLANGE ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. See Appendix B , Reference Drawing Group A, for selection of leg. (e.g., CQKSDFSL*).

MRC Mode Code Requirements

REPLY CODE	REPLY (AN73)
AEN	ALL ENDS
FEN	FIRST END
FSL	FIRST LEG
HEN	FOURTH END
MBY	MAIN BODY
SEN	SECOND END
SLG	SECOND LEG
TEN	THIRD END

AWLS D CONNECTION TYPE

Definition: INDICATES THE TYPE OF CONNECTION(S).

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code and the applicable Reply Code from Appendix A, Table 6. Follow the instructions and answer the applicable MRCs for the connection ends. (e.g., AWLS1XDAA*; AWLS1DDAA*; AWLS1JDAB*)

END CONNECTION TYPE SELECTION INSTRUCTIONS:

1. When ends are of a different type, the entry closest to the top of the table of replies will be described as the FIRST END, the type listed second will be SECOND END, etc. (e.g., AWLS1DDAY*; AWLS1JDAC*; etc.)

2. When the ends are of the same type, the largest end will be described as the FIRST END. (e.g., AWLS1DDAA*; AWLS1EDAA*)

3. When ends are of the same type and size, and one end has a bulkhead connection or a reduced passage, that end will be described as the first end. (e.g., AWLS1JDAC*; AWLS1KDAC*)

4. When one end has internal and external connections, use AND coding; list internal type then external type. (e.g., AWLS1DDAA*; AWLS1EDAE$$DAG*)

AHNC L CONNECTION STYLE

MRC	Mode Code	Requirements

NOTE: For each reply to MRC AWLS: If reply to MRC AWLS was AA, AE, AP, AV or WS, use Reference Drawing Group B. If reply to MRC AWLS was AB, AF or AQ, use Reference Drawing Group C. If reply to MRC AWLS was AC, AG, AR, AW, RM or WR, use Reference Drawing Group D. If reply to MRC AWLS was AD, AJ, AS, BD or BE, use Reference Drawing Group E. If reply to MRC AWLS was BF, use Reference Drawing Group G. If reply to MRC AWLS was BC, use Reference Drawing Group J. If reply to MRC AWLS was AY, AZ, BA, RF or RG, use Reference Drawing Group K.

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE CONNECTION.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code and the applicable group designator and end shape/coupling number from Appendix B, Reference Drawing Group B, C, D, E, G, J or K. (e.g., AHNC1XLB2*; AHNC1JLC3*; AHNC1DLJ2*)

AGTA * L BASIC SHAPE STYLE

NOTE: Reply to this MRC if Reply Code BF is answered for MRC AWLS.

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE BASIC APPEARANCE OF THE ITEM.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code and the applicable Drawing number from Appendix B, Reference Drawing Group H. (e.g., AGTA1DL1*; AGTA1XL3*)

ADLN * D QUICK DISCONNECT METHOD

NOTE: Reply to this MRC if reply AY, AZ, BA, RF or RG is given for MRC AWLS.

Definition: THE MEANS BY WHICH MECHANICAL ACTION COMPLETELY ENGAGES OR DISENGAGES A MATING QUICK DISCONNECT PART.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5; followed by the Mode Code and the applicable Reply Code from the table below. See Appendix B, Reference Drawing Group K for pictorial reference and Appendix C, Table 1 for quick disconnect definitions. (e.g., ADLN1JDD*; ADLN1EDM*; ADLN1XDF*)

REPLY CODE	REPLY (AC44)

MRC	Mode Code	Requirements
	M	CAM-LOCKING Cam or Lever (use M)
	K	GLADHAND
	C	PUSH-LOCK
	D	PUSH-PULL
	L	QUICK LEAD THREAD
	E	SPRING PUSH-LOCK
	F	SPRING PUSH-PULL
	G	TWIST-LOCK
	H	TWO LUG UNIVERSAL

ADLP * J QUICK DISCONNECT NOMINAL SIZE

NOTE: Reply to this MRC if reply AY, AZ, BA, RF, or RG is given for MRC AWLS.

Definition: THE INDUSTRIAL DESIGNATION OR TERM FOR THE SIZE OF THE QUICK DISCONNECT INTERNAL OR EXTERNAL END.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., ADLP1JJA1.000*; ADLP1XJL25.0*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

AAAR * J NOMINAL PIPE SIZE ACCOMMODATED

NOTE: Reply to this MRC if reply AE, AF, AG, AJ, or BD is given for MRC AWLS.

Definition: A MEASUREMENT OF THE PIPE SIZE THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., AAAR1XJA0.250*; AAAR1KJL16.35*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

MRC	Mode Code	Requirements

CWTM * J NOMINAL COUPLING SIZE ACCOMMODATED

NOTE: If Reply Code GQ, WR, or WS was entered for MRC AWLS, reply to MRC CWTM.

Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL COUPLING SIZE THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., CWTM1JJA0.500*; CWTM1XJL33.2*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

CWDW * J NOMINAL INSIDE DIAMETER HOSE ACCOMMODATED

NOTE: If Reply Code AP, AR, AQ, AS or RM was entered for MRC AWLS, reply to MRC CWDW.

Definition: THE NOMINAL LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., CWDW1XJA0.500*; CWDW1KJL12.7*; CWDW1DJA0.250$$JA0.312*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

CWFD * J NOMINAL OUTSIDE DIAMETER TUBE ACCOMMODATED

NOTE: If reply AA, AB, AC, AD, or BE was entered for MRC AWLS, reply to MRC CWFD.

Definition: THE NOMINAL LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED TUBE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, the applicable Reply Code from the table below, followed by the numeric value. (e.g., CWFD1XJA0.625*; CWFD1EJL15.88*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

CQRB * J SEAT ANGLE

NOTE: If Reply Code AA, AE, AP, AV, or WS was entered for MRC AWLS, see Reference Drawing Group B for illustration. If Reply Code AC, AG, AR, AW, RM, or WR was entered for MRC AWLS, see Reference Drawing Group D for illustration.

Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., CQRB1AJD12.5*; CQRB1BJR1.752*; CQRB1AJD37.0$$JD45.0*)

REPLY CODE	REPLY (AP38)
D	DEGREES
R	RADIANS

CWBZ * J SEAT NOMINAL RADIUS

NOTE: If Reply Code AA, AE, AP, AV, or WS was entered for MRC AWLS, see Reference Drawing Group B for illustration. If Reply Code AC, AG, AR, AW, RM, or WR was entered for MRC AWLS, see Reference Drawing Group D for illustration.

Definition: THE NOMINAL RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., CWBZ1AJA0.620*; CWBZ1AJL0.7*)

REPLY CODE	REPLY (AA05)
A	INCHES

MRC	Mode Code	Requirements
	L	MILLIMETERS

THSD * D THREAD SERIES DESIGNATOR

NOTE: If Reply Code AA, AC, AE, AG, AP, AR, AV, AW, RM, WR, or WS was entered for MRC AWLS, reply to MRC THSD.

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code and the applicable Reply Code from Appendix A, Table 9. (e.g., THSD1XDNF*). If the item has internal and external threads on the same end, enter the internal reply first. (e.g., THSD1DDUN$$DNP*)

CQJX * J NOMINAL THREAD SIZE

NOTE: If a reply was entered for MRC THSD, reply to MRC CQJX.

Definition: A DESIGNATION THAT IS USED FOR THE PURPOSE OF GENERAL IDENTIFICATION OF THE THREAD.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., CQJX1XJA0.250*; CQJX1JJL6.3*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

CMLP * A THREAD QUANTITY PER INCH

NOTE: If Reply Code RH, UN, JN, NP, JS, NS, or WW was entered for MRC THSD, reply to MRC CMLP.

Definition: THE NUMBER OF THREADS ON THE ITEM PER LINEAR INCH MEASURED ON A LINE PARALLEL TO THE THREAD AXIS.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code and the quantity. (e.g., CMLP1DA20*)

AAJD * A THREAD CLASS

MRC	Mode Code	Requirements

NOTE: Reply to this MRC if reply JC, JE, JF, JS, NC,NE, NF, NJ or UN was given for MRC THSD.

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code and the thread class. (e.g., AAJD1XA3A*; AAJD1DA2B*)

CQQR * B THREAD PITCH IN MILLIMETERS

NOTE: If Reply Code EM, MJ, MS, JS, NS, RD, SM, or SS was entered for MRC THSD, reply to MRC CQQR.

Definition: A MEASUREMENT OF DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE THREAD AXIS, EXPRESSED IN MILLIMETERS.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by Mode Code and the numeric value. (e.g., CQQR1DB1.75*)

CTTC * J THREAD TOLERANCE CLASS

NOTE: If rReply Code EM, MJ, MS, JS, NS, RD, SM, or SS was entered for MRC THSD, reply to MRC CTTC.

Definition: A NUMERIC-ALHPA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, followed by the Mode Code, the applicable Reply Code from the table below, and the numeric value. (e.g., CTTC1DJEXT6H*; CTTC1XJEXT6H$$JNTE6G*)

REPLY CODE	REPLY (AN73)
EXT	EXTERNAL
NTE	INTERNAL

AAJE * J THREAD PITCH DIAMETERS

NOTE: If a reply was entered for MRC THSD, reply to MRC AAJE.

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable ISAC from Appendix A , Table 5, the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., AAJE1DJAP0.237/P0.240*; AAJE1XJLP1.23/P1.25*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

ADLT * G MATING END IDENTIFICATION

NOTE: If Reply Code AY, AZ, BA, BC, GQ, RF, or RG was entered for MRC AWLS, reply to MRC ADLT.

Definition: THE SPECIFIC MATING COUPLING HALF WITH WHICH THE ITEM MUST CONNECT.

Reply Instructions: Enter the manufacturer's name, item name, and part number. (e.g., ADLTGHANSEN MFG CO. COUPLING HALF, QUICK DISCONNECT, PART NO. 1234*; ADLTGFIRST END: HANSEN MFG. CO. COUPLING HALF, QUICK DISCONNECT, PART NO. 1234; SECOND END HANSEN MFG. CO. COUPLING HALF, QUICK DISCONNECT, PART NO. 2345*)

TMQY * J FURNISHED ITEMS AND QUANTITY

Definition: THE NAME AND NUMBER OF THOSE PARTS FURNISHED WITH THE ITEM OF SUPPLY THAT HAVE NOT BEEN SPECIFIED ELSEWHERE.

Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 7, followed by the quantity. (e.g., TMQYJANA1*; TMQYJAEL1$$JAMM1*)

ADJS * D EXTERIOR COLOR

Definition: THE HUE OR TINT OF THE EXTERIOR OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADJSDGR0000*; ADJSDGR0000$$DBR0000*; ADJSDRE0000$DBR0000*)

REPLY CODE	REPLY (AD06)
BL0000	BLACK
BU0000	BLUE
BR0000	BROWN
GR0000	GREEN
RG0000	ORANGE
PU0000	PURPLE

MRC	Mode Code	Requirements
	RE0000	RED
	WH0000	WHITE
	YE0000	YELLOW

CBBL * D FEATURES PROVIDED

Definition: THOSE FEATURES, NOT OTHERWISE SPECIFIED, WHICH MAY BE REQUIRED FOR PROPER FUNCTIONING OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CBBLDAAV*; CBBLDBMA$$DAMM*)

REPLY CODE	REPLY (AN47)
AAV	BOLTED FLANGE HOUSING TYPE
BPQ	LOCKWIRE HOLE
BMA	MANUAL SHUT-OFF VALVE
ABS	REUSABLE END FITTING
FNY	*ROHS DIRECTIVE COMPLIANCE*
AMM	SAFETY LOCKING FEATURE
ABT	*SELF-SEALING*

FEAT * G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. (e.g., FEATGQUALITY CONTROLLED*)

TEST * J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE code, a dash, and the document identification number. (e.g., TESTJA12345-CWX654321*; TESTJA12345-654321$$JB55566\N66354*; TESTJA12345-654321$JB55566-663654*)

REPLY CODE	REPLY (AC28)
A	SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical", "average", "nominal", etc.)
B	STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)
C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc; excludes any specification, standard, or other document that may be referenced in a basic governing drawing.)

SPCL * G SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ZZZK * J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B$$JP80205-NAS1103*)

REPLY CODE	REPLY (AN62)
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STANDARD/SPECIFICATION
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

ZZZT * J NONDEFINITIVE SPEC/STD DATA

NOTE: If the specification/standard cited in reply to MRC ZZZK is nondefinitive, reply to MRC ZZZT. This reply is the data which is not recorded in Segment C.

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 8, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJCD1$$JSTA*; ZZZTJCL1$JSTA*)

ZZZY * G REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

BBRG * D STORAGE TYPE

Definition: INDICATES THE TYPE OF STORAGE SPACE REQUIRED FOR AN ITEM IN ORDER TO PROVIDE THE DEGREE OF PROTECTION NECESSARY TO MAINTAIN SERVICEABILITY STANDARDS.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBRGDAD*; BBRGDAW$DAX*)

REPLY CODE	REPLY (AM81)
AQ	CONTROLLED HUMIDITY UNHEATED WAREHOUSE
AD	CONTROLLED HUMIDITY WAREHOUSE
AM	DEHUMIDIFIED WAREHOUSE
AT	DOCK LEVEL HEATED WAREHOUSE
AX	DOCK LEVEL UNHEATED WAREHOUSE
AY	GENERAL PURPOSE HEATED WAREHOUSE
AZ	GENERAL PURPOSE UNHEATED WAREHOUSE
AS	GROUND LEVEL HEATED WAREHOUSE
AW	GROUND LEVEL UNHEATED WAREHOUSE
AN	HEATED WAREHOUSE
AR	SHED

AFJQ * J STORAGE TEMP RANGE

Definition: THE MINIMUM AND MAXIMUM TEMPERATURES AT WHICH AN ITEM CAN BE STORED WITHOUT DETRIMENTAL EFFECT.

MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the temperature limits to one decimal place, entering the minimum value first. If value is less than 0 degree, enter M(minus) and P(plus) if greater than zero. (e.g., AFJQJFP32.0/P50.0*; AFJQJCM10.0/P20.0*; AFJQJFM15.0/M5.0*)

REPLY CODE	REPLY (AB36)
C	DEG CELSIUS
F	DEG FAHRENHEIT

AJAG * J UNPACKAGED UNIT WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM UNENCUMBERED BY PACKAGING OR PACKING, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJAGJAA0.250*; AJAGJLA24.5*; AJAGJAB3.000$$JAC3.750*)

Table 1

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

Table 2

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AJAH * J UNPACKAGED UNIT HEIGHT

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF AN ITEM UNENCUMBERED BY PACKAGING OR PACKING, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJAHJAA0.750*; AJAHJLA6.3*; AJAHJAB5.000$$JAC6.000*)

Table 1

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

MRC Mode Code Requirements

Table 2

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

CBBL * D FEATURES PROVIDED

Definition: THOSE FEATURES, NOT OTHERWISE SPECIFIED, WHICH MAY BE REQUIRED FOR PRPOER FUNCTIONING OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g.; CBBLDFNY*)

CRTL * A CRITICALITY CODE JUSTIFICATION

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAAKJA*; CRTLAAKJA$$ACSGS*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

PRPY * A PROPRIETARY CHARACTERISTICS

NOTE: If Document Availability Code B, D, F, or H, reply to MRC PRPY.

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

MRC	Mode Code	Requirements

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding ($$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAAKJA$$ACSGS*)

SUPP * G SUPPLEMENTARY FEATURES

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

(e.g., ZZZPJ81337-30624A*)

AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)

ELRN * G EXTRA LONG REFERENCE NUMBER

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

CLQL * G COLLOQUIAL NAME

Definition: A COMMON USAGE NAME BY WHICH AN ITEM IS KNOWN.

Reply Instructions: Enter the reply in clear text. (e.g., CLQLGWOVEN WIRE CLOTH*)

CXCY * G PART NAME ASSIGNED BY CONTROLLING AGENCY

MRC	Mode Code	Requirements
		Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM. Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)

Reply Tables

Table 1 - MATERIALS

MATERIALS

REPLY CODE	REPLY (MA01)
ALA000	ALUMINUM
ALB000	ALUMINUM ALLOY
AL0206#	ALUMINUM ALLOY A-S13
AL0228#	ALUMINUM ALLOY A-U5GT
BEB000	BERYLLIUM COPPER
	Brass (use Reply Code CUB000)
	Bronze (use Reply Code CUB000)
CRA000	CHROMIUM
CRB000	CHROMIUM ALLOY
CUA000	COPPER
CUB000	COPPER ALLOY
CU1068#	COPPER ALLOY CU-AL9NI-FE
CU1158#	COPPER ALLOY CU-AL9NI3FE2
CU1097#	COPPER ALLOY CU-SN7P
CU1100#	COPPER ALLOY CU-SN9P
CU1091#	COPPER ALLOY CU-SN12
CU1179#	COPPER ALLOY CU-SN12P
CU1126#	COPPER ALLOY CU-ZN39PB1
CU1127#	COPPER ALLOY CU-ZN39PB2
GSB000	GLASS FIBER
FEA000	IRON
FEF000	IRON ALLOY
PBA000	LEAD
LRA000	LEATHER
MGA000	MAGNESIUM
MGB000	MAGNESIUM ALLOY
MNA000	MANGANESE
MBA000	MOLYBDENUM
	MONEL ALLOY (use Reply Codes CUA000 and NLA000)
NLA000	NICKEL
NLB000	NICKEL ALLOY
PCA000	PLASTIC
PCCB00	PLASTIC NYLON
PCAF00	PLASTIC POLYTETRAFLUOROETHYLENE
PCAJ00	PLASTIC POLYVINYL CHLORIDE
PCAW00	PLASTIC TETRAFLUOROETHYLENE
	PVC (use Reply Code PCAJ000)
RCE000	RUBBER
RCB000	RUBBER SYNTHETIC
STA000	STEEL
ST0747 #	STEEL COMP ADX
ST0938 #	STEEL COMP Z2CND17-12
ST0996 #	STEEL COMP Z8CNDT18-12

REPLY CODE	REPLY (MA01)
ST0899 #	STEEL COMP Z10CF17
ST0892 #	STEEL COMP Z10CNT18-10
ST0897 #	STEEL COMP Z10CN18-10
ST0956 #	STEEL COMP Z30CF13
STB000	STEEL CORROSION RESISTING
	TEFLON (use Reply Code PCAF00)
	TFE (use Reply CodePCAW00)
TTB000	TITANIUM
TTA000	TITANIUM ALLOY
	VITON A (use Reply Code RCB000)
	VITON (use Reply Code RCB000)
ZNB000	ZINC
ZNA000	ZINC ALLOY

Table 2 - ISAC LOCATION

For use with MRCs MATT, MDCL, SFTT and STDC

ISAC LOCATION

ISAC INDICATOR	LOCATION (Table 0263)
2XX	OVERALL
2AA	BALL BEARING
2AB	BALL END
2AC	BAND
2AD	BEARING
2AE	BODY
2AF	BOLT
2AG	BRAZING RING
2BH	DIE NUT
2AK	ELBOW
2AL	FLANGE
2AM	FOLLOWER RING
2BE	GASKET
2BF	HOSE GROMMET
2AN	INSIDE
2BG	LOCK NUT
2BD	LOCK RING
2BJ	LONG SWIVEL NUT
2AP	NIPPLE
2AQ	NUT
2AR	OUTSIDE
2AT	PLUG
2BK	RETAINER
2AV	SEAT
2BL	SHORT SWIVEL NUT
2AW	SHOULDER
2AX	SLEEVE

ISAC INDICATOR	LOCATION (Table 0263)
2AY	SOCKET
2BM	STUD
2AZ	TAILPIECE
2BN	TEE
2BA	THREAD PIECE
2BB	TUBE
2BC	UNION

Table 3 - MEDIA FOR WHICH DESIGNED

MEDIA FOR WHICH DESIGNED

REPLY CODE	REPLY (AN91)
AEJ	ACETYLENE GAS
AAE	AIR
ABW	ALCOHOL
ABX	AMMONIA
	Antifreeze (use Reply Code ADS)
ACW	CHEMICAL
ADS	ETHYLENE GLYCOL/WATER MIXTURE
	Fire Fighting Agents (use Reply Codes ABR, ABT and/or ACW)
	Freon (use Reply Code AFD)
AAY	FUEL/OIL, HYDROCARBON (includes aromatic fuels (aircraft), Diesel Fuel, Fuel Oil, Grease, Hydraulic Oil, Jet Fuel, Kerosene, Lubricating Oil)
AAQ	GAS
ACZ	GASOLINE
AAR	GREASE
ACC	HELIUM
AGT	HYDRAULIC FLUID, MINERAL BASE
ACD	HYDRAULIC FLUID, PETROLEUM BASE
AAW	HYDRAULIC FLUID, PHOSPHATE-ESTER BASE
AAX	HYDRAULIC FLUID, SILICATE-ESTER BASE
AFK	HYDRAULIC FLUID, SYNTHETIC HYDROCARBON BASE
AAT	HYDRAULIC FLUID, WATER BASE
ACF	HYDRAZINE
ABE	NITROGEN, GASEOUS
ABG	NITROGEN, TETRAOXIDE
ACJ	OIL (Hydrocarbon Base)
ABJ	OXYGEN, GASEOUS
ABK	OXYGEN, LIQUID (Lox)
ACK	PROPANE (U.L. Approved)
AFD	REFRIGERANT
ACL	REFRIGERANT, HALOGENATED
ABM	REFRIGERANT 12
ACM	REFRIGERANT 22
AFE	REFRIGERANT 114
AHA	REFRIGERANT 500

REPLY CODE	REPLY (AN91)
AHB	REFRIGERANT 502
ABP	STEAM
ABR	WATER
AEK	WATER/ALCOHOL MIXTURE
ABS	WATER, FRESH
	Water-Oil-Gas (WOG) (use Reply Codes ABR, ACJ, and AAQ)
ABT	WATER, SALT

Table 4 - ISAC RESPONSE INDICATORS
For use with MRCS MEDA, CQGM AND AEHZ

ISAC RESPONSE INDICATORS

ISAC FIELD INDICATOR	RESPONSE (0271)
1A	SINGLE RESPONSE
1B	1ST RESPONSE
1C	2ND RESPONSE
1D	3RD RESPONSE
1E	4TH RESPONSE

Table 5 - ISAC LOCATION INDICATOR
For use with MRCS AWLS, AHNC, AGTA, ADLN, ADLP, AAAR, CWTM, CWDW, CWFD, THSD, CWBZ, CQRB, CQJX, CMLP, AAJD, CQQR, CTTC, and AAJE

ISAC LOCATION INDICATOR

ISAC FIELD INDICATOR	LOCATION (0097)
1X	ALL ENDS
1D	FIRST FLUID END CONNECTION
1J	FIRST QUICK DISCONNECT END
1H	MOUNTING FLANGE
1E	SECOND FLUID END CONNECTION
1K	SECOND QUICK DISCONNECT END

Table 6 - CONNECTION TYPES
CONNECTION TYPES

REPLY CODE	REPLY (AB76)
RG	AIR CHUCK QUICK DISCONNECT
BD	BUTT WELD PIPE
BE	BUTT WELD TUBE
AZ	EXTERNAL QUICK DISCONNECT
BF	FLANGE
BA	GLAD HAND QUICK DISCONNECT

REPLY CODE	REPLY (AB76)
GQ	GROOVED COUPLING
AY	INTERNAL QUICK DISCONNECT
AW	THREADED EXTERNAL BOSS
WR	THREADED EXTERNAL GAS FITTING
AR	THREADED EXTERNAL HOSE
RM	THREADED EXTERNAL HOSE GRIPPING
AG	THREADED EXTERNAL PIPE
AC	THREADED EXTERNAL TUBE
AV	THREADED INTERNAL BOSS
WS	THREADED INTERNAL GAS FITTING
AP	THREADED INTERNAL HOSE
AE	THREADED INTERNAL PIPE
AA	THREADED INTERNAL TUBE
RF	UNIVERSAL QUICK DISCONNECT
AS	UNTHREADED EXTERNAL HOSE
AJ	UNTHREADED EXTERNAL PIPE
AD	UNTHREADED EXTERNAL TUBE
AQ	UNTHREADED INTERNAL HOSE
AF	UNTHREADED INTERNAL PIPE
AB	UNTHREADED INTERNAL TUBE
BC	UNTHREADED UNIVERSAL FITTING BOLT END

Table 7 - FURNISHED ITEMS

FURNISHED ITEMS

REPLY CODE	REPLY (AB28)
AMK	ACUATING RING
ACH	ADAPTER
ABR	BOLT
ACJ	BRAZING RING
AJM	BUSHING
AEL	CAP
AMM	CHAIN
BFG	CHAIN WHEEL
AKG	COVER
	Dust Cap (use Reply Code AEL)
AZA	FILTER
AHD	FILTER SCREEN
ACM	FLOAT
ACN	GASKET
ADM	GROMMET
AQF	HANDLE
BFQ	HANDWHEEL
AMQ	HOSE CLAMP FERRULE
ADP	HOSE COUPLING NUT
BLH	INDICATOR
BFR	INSULATING BLANKET

REPLY CODE	REPLY (AB28)
BFS	LEVER
ADP	LOCK NUT
AMR	LOCK SPRING
ASC	LOCKING DEVICE
ADX	LONG COUPLING NUT
AMS	NAME TAG
ABW	NUT
ACQ	NUT-SLEEVE
	O-Ring (use Reply Code ADZ)
AEZ	ORIFICE PLATE
ABY	PIN
AEA	PLUG
ACR	PLUGGED DRAIN
ADZ	PREFORMED PACKING
AMT	PRESSURE CAP
BFW	REDUCER
BFX	RELIEF PLUG
AMW	RETAINING CLIP
AMX	SCREW
	Screw, Cap, Hexagon Head (use Reply Code AMX)
	Screw, Drive (use Reply Code AMX)
AFH	SEAL
	Sealing Ring (use Reply Code ADZ)
AEC	SHORT COUPLING NUT
ACW	SIGHT GAGE
ACX	SLEEVE
	Sleeve Lock (use Reply Code ACX)
AMY	SPRING
AFM	STRAINER
ABH	SWITCH
ACZ	TAILPIECE
AMZ	UNION NUT
AJW	WASHER
	Washer, Lock (use Reply Code AJW)
ANA	WIRE ROPE
ADA	WRENCH

Table 8 - NONDEFINITIVE SPEC/STD DATA

NONDEFINITIVE SPEC/STD DATA

REPLY CODE	REPLY (AD08)
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY

REPLY CODE	REPLY (AD08)
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN

REPLY CODE	REPLY (AD08)
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Table 9 - THREAD SERIES DESIGNATORS

THREAD SERIES DESIGNATORS

REPLY CODE	REPLY (AH06)
AM	ACME
AC	ACME C
AG	ACME G
AN	ANPT
BF	BSF

REPLY CODE	REPLY (AH06)
DQ	BSP.C
FB	BSP.F
ZP	BSP.L
PL	BSP.PL
BS	BSP.TR EXT
BR	BSP.TR INT
BW	BSW
TT	BUTTRESS
FP	F-PTF
SM	ISO M
ME	ISO METRIC FINE
SS	ISO S
EM	M (Metric
MJ	MJ (Metric J Series)
NG	NGO
GS	NGS
GT	NGT
NH	NH
NZ	NH-SPCL (Navy Standard) Nonstandard (use Reply Code NS)
SP	NPS
SC	NPSC
SF	NPSF
SH	NPSH
PS	NPSI
SL	NPSL
PM	NPSM
NP	NPT
NT	NPTF
PT	PTF-SAE SHORT
PP	PTF-SP
PE	PTF-SPL EXTRA SHORT
PF	PTF-SPL SHORT
RH	RAN HOSE (Royal Australian Navy)
RD	ROUND
SA	STUB ACME
MT	SUBMARINE THD
UN	UN
NC	UNC
NE	UNEF
NF	UNF
NJ	UNJ
JC	UNJC
JE	UNJEF
JF	UNJF
JS	UNJS
NS	UNS (National Special)
UT	UNTHREADED

REPLY CODE	REPLY (AH06)
WW	WHITWORTH

Reference Drawing Groups

BODY STYLE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables l and 2 below, followed by the numeric value, including the end connection. (e.g., AHSJJAA0.750* AHSJJLA19.0*; AHSJJAB0.750$$JAC0.752*AHSJJAA0.750$$JAA0.500)

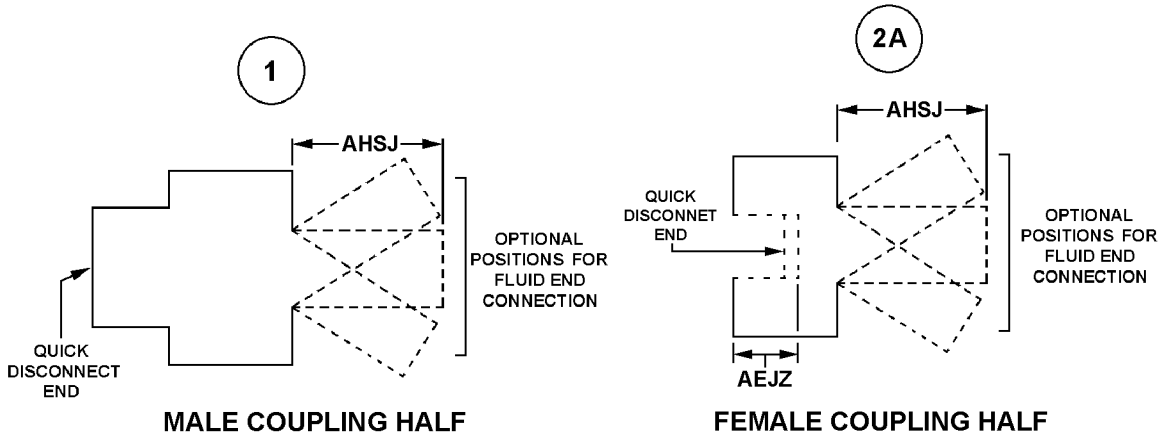
REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

REPLY CODE	REPLY (AC20)
A	NOMINAL
B	MINIMUM
C	MAXIMUM

MRC	Mode Code	Name of Dimension
AEJZ	J	DEPTH
AHSJ	J	LEG LENGTH

REFERENCE DRAWING GROUP A

BODY STYLE

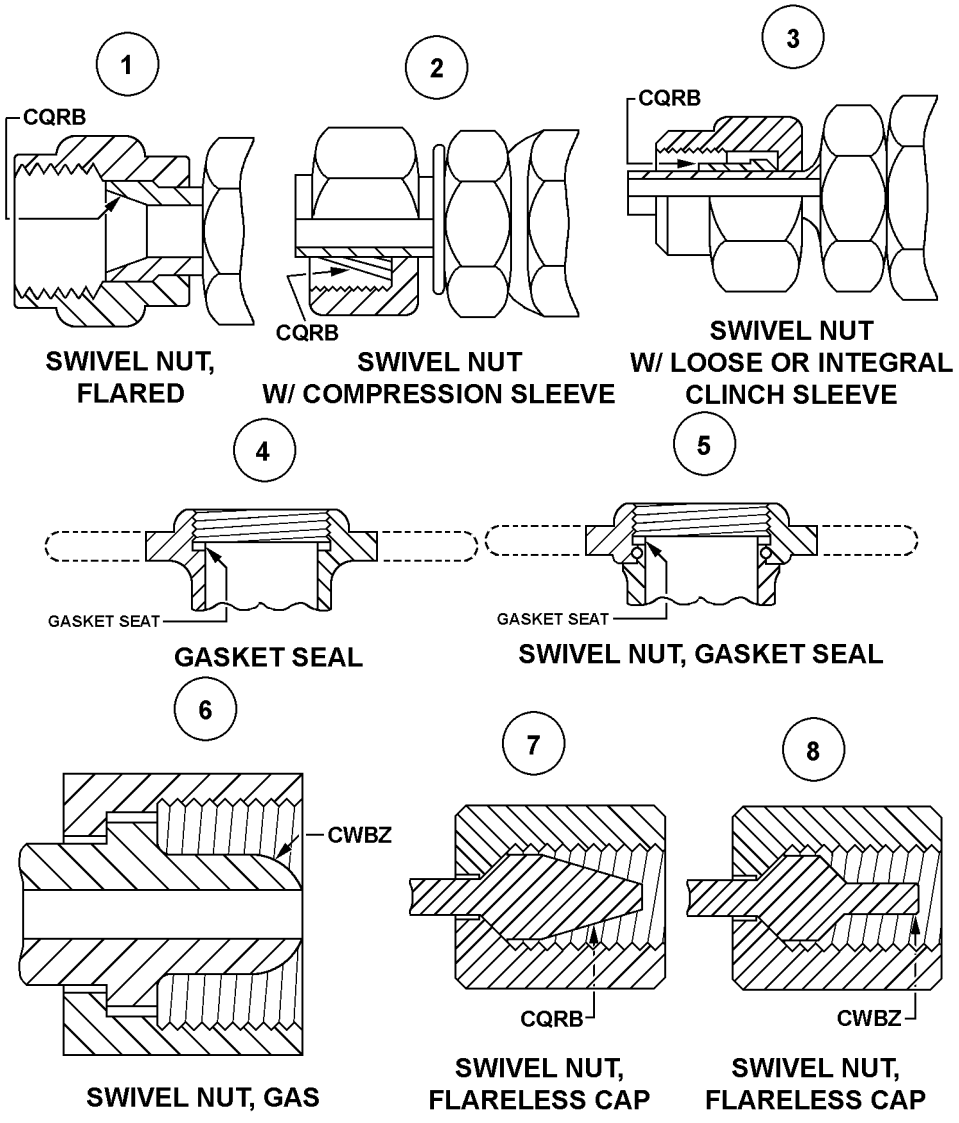


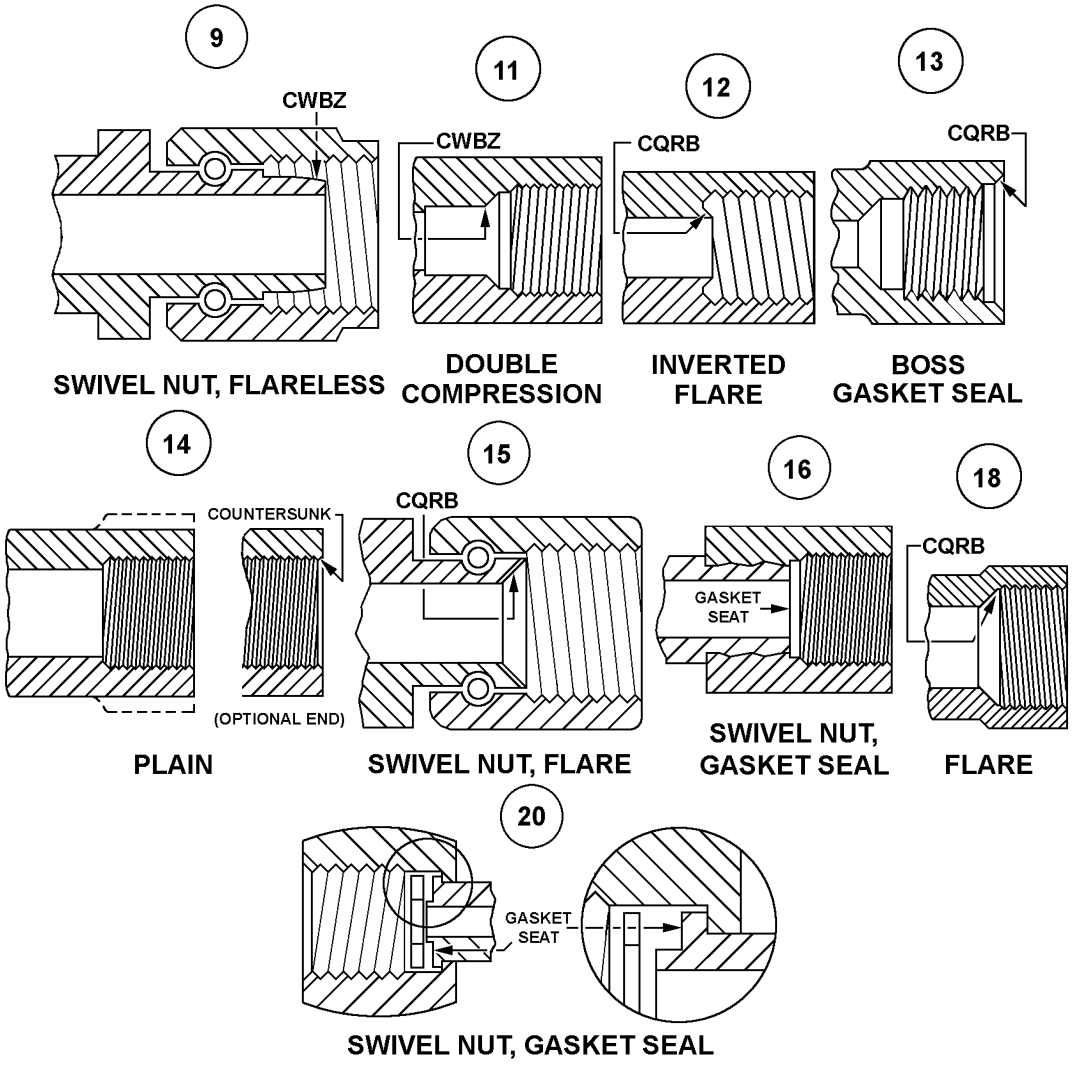
REFERENCE DRAWING GROUP B

END CONNECTIONS

THREADED INTERNAL

(No Requirements)



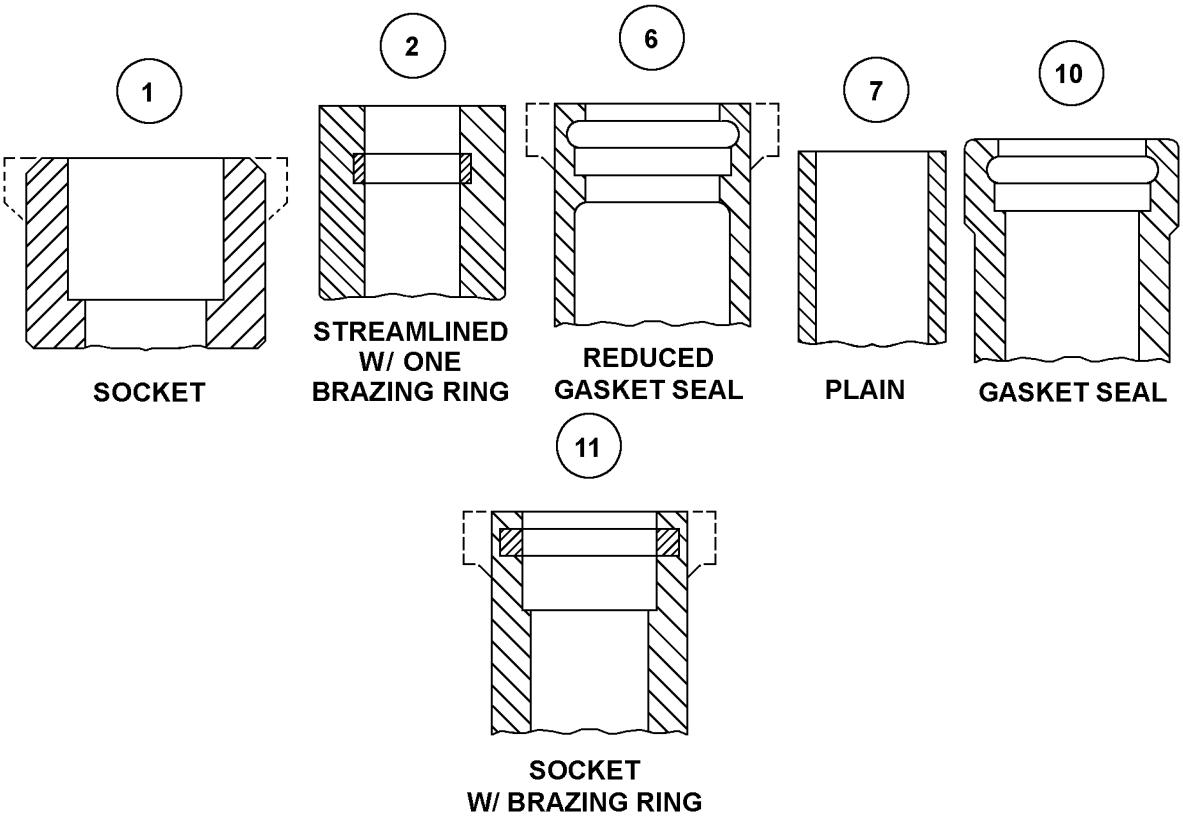

9
CWBZ
SWIVEL NUT, FLARELESS
11
CWBZ
DOUBLE COMPRESSION
12
CQRB
INVERTED FLARE
13
CQRB
BOSS GASKET SEAL
14
COUNTERSUNK
(OPTIONAL END)
PLAIN
15
CQRB
SWIVEL NUT, FLARE
16
GASKET SEAT
SWIVEL NUT, GASKET SEAL
18
CQRB
FLARE
20
GASKET SEAT
SWIVEL NUT, GASKET SEAL

REFERENCE DRAWING GROUP C

END CONNECTIONS

UNTHREADED INTERNAL

(No Requirements)

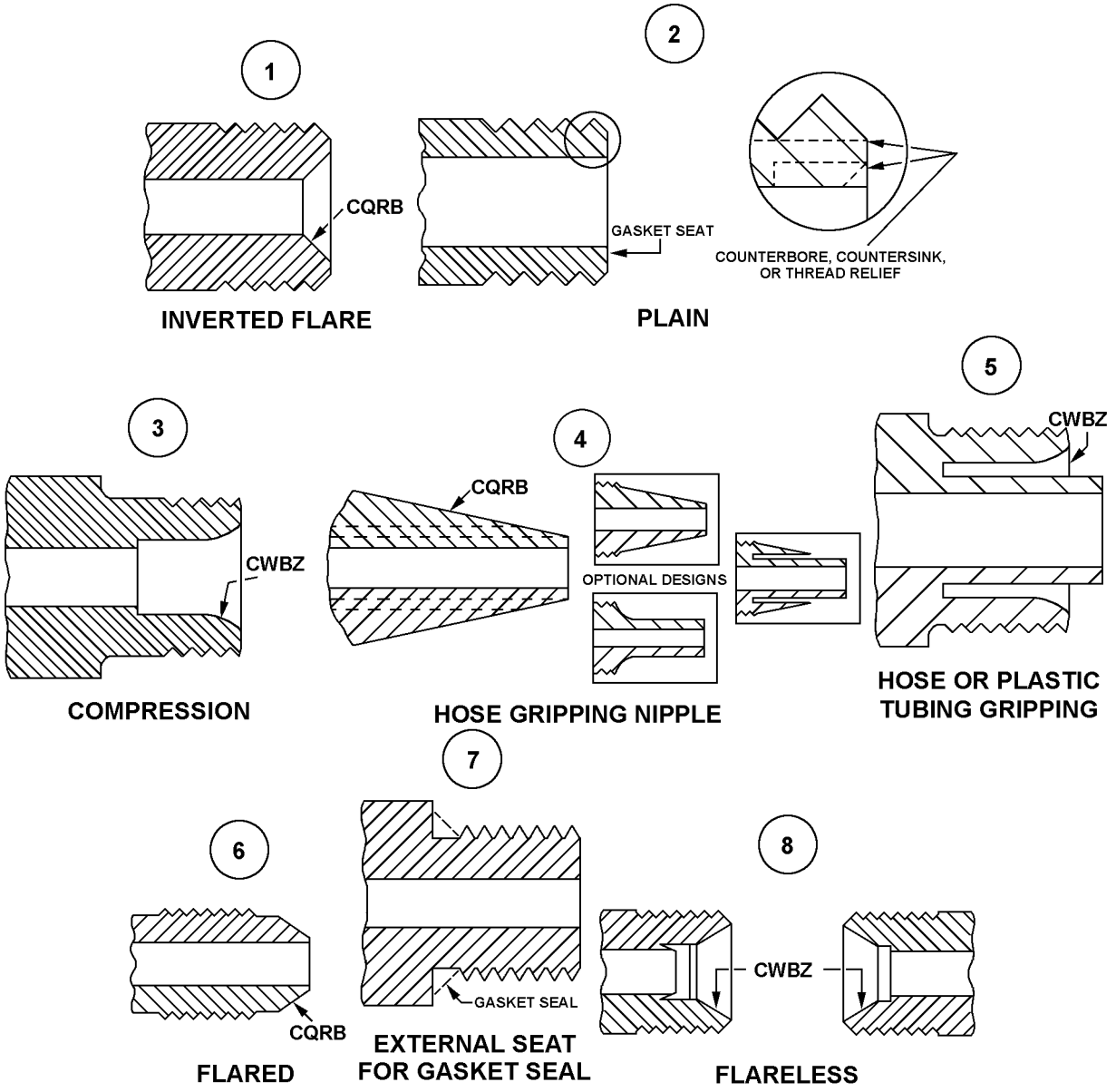


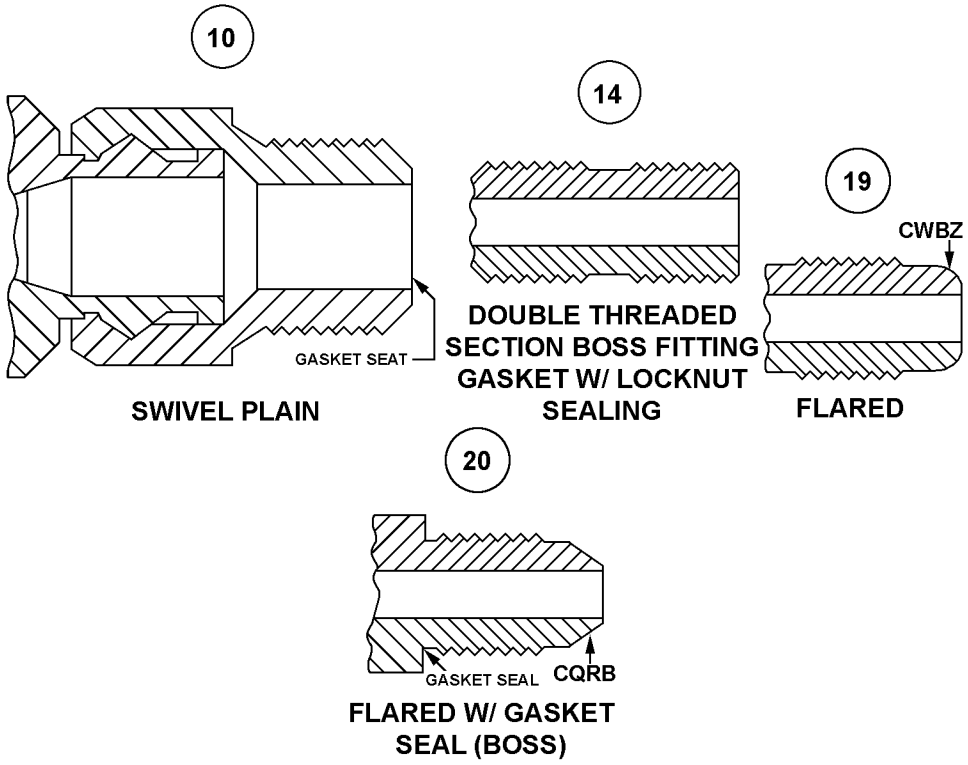
REFERENCE DRAWING GROUP D

END CONNECTIONS

THREADED EXTERNAL

No Requirements



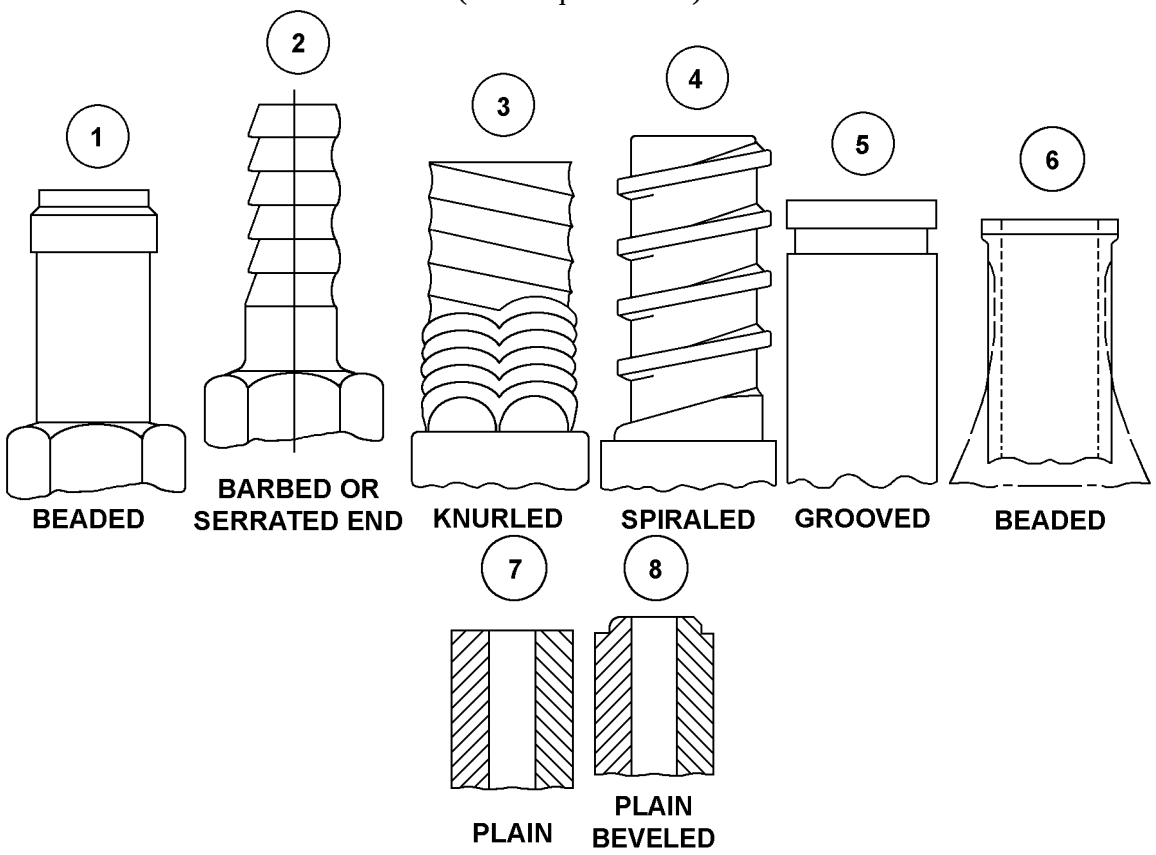

10
GASKET SEAT
SWIVEL PLAIN
14
DOUBLE THREADED
SECTION BOSS FITTING
GASKET W/ LOCKNUT
SEALING
19
CWBZ
FLARED
20
GASKET SEAL
CQRB
FLARED W/ GASKET
SEAL (BOSS)

REFERENCE DRAWING GROUP E

END CONNECTIONS

UNTHREADED EXTERNAL

(No Requirements)



REFERENCE DRAWING GROUP G Tables
FLUID END FLANGE FACE DIMENSIONS

INDEX OF MASTER REQUIREMENT CODES

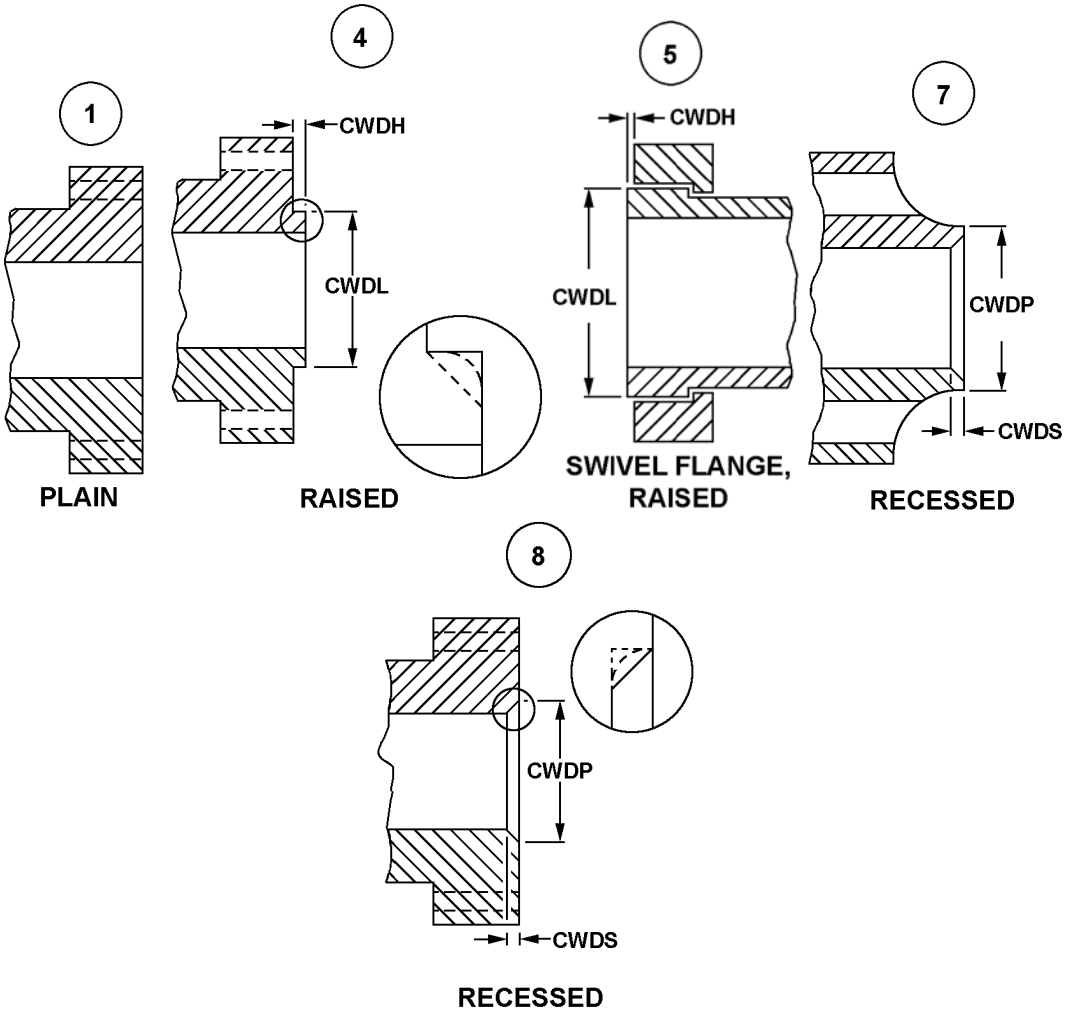
Enter the applicable Reply Codes from the table below, followed by the numeric value. (e.g., CWDSJA0.062*; CWDSJL1.6*; CWDSJA0.125$$JA0.312*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

MRC	Mode Code	Name of Dimension
CWDS	J	NOMINAL RECESS DEPTH
CWDL	J	NOMINAL RAISED FACE DIAMETER
CWDP	J	NOMINAL RECESS DIAMETER
CWDH	J	NOMINAL RAISED FACE HEIGHT

REFERENCE DRAWING GROUP G

FLUID END FLANGE FACE DIMENSIONS



REFERENCE DRAWING GROUP H Tables
FLUID END FLANGE SHAPE STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from the table below, followed by the numeric value. (e.g., CWCTJA2.250*; CWCTJL25.2*; CWCTJA0.500$$JA0.625)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

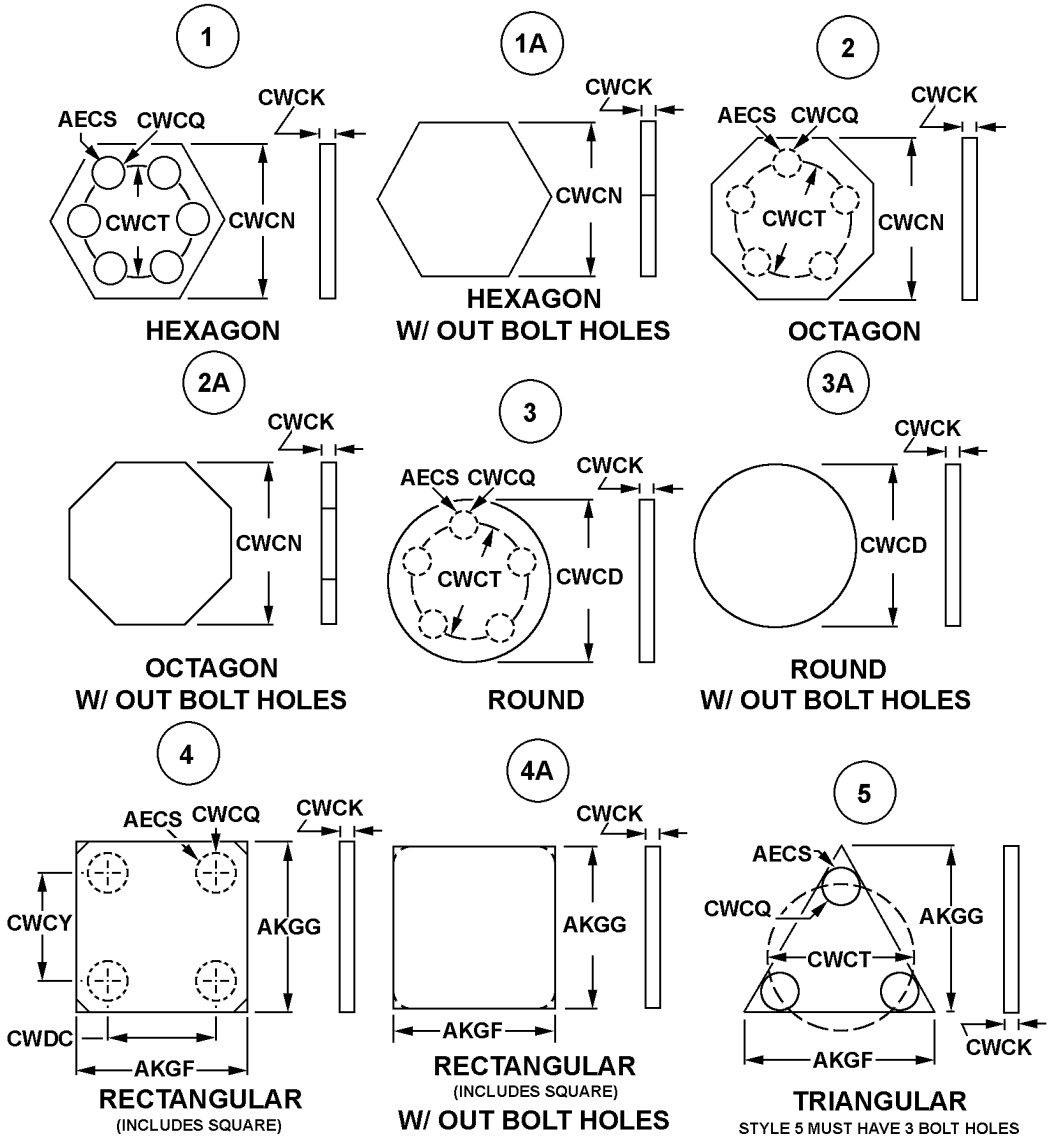
MRC	Mode Code	Name of Dimension
CWCQ	J	NOMINAL BOLT HOLE DIAMETER
CWCT	J	NOMINAL BOLT CIRCLE DIAMETER
CWCD	J	NOMINAL OUTSIDE DIAMETER
CWCY	J	NOMINAL CENTER TO CENTER DISTANCE BETWEEN BOLT HOLES ALONG LENGTH
CWDC	J	CENTER TO CENTER DISTANCE BETWEEN BOLT HOLES ALONG WIDTH
AKGG	J	NOMINAL LENGTH
CWCK	J	NOMINAL THICKNESS
CWCN	J	NOMINAL WIDTH ACROSS FLATS
AKGF	J	NOMINAL WIDTH

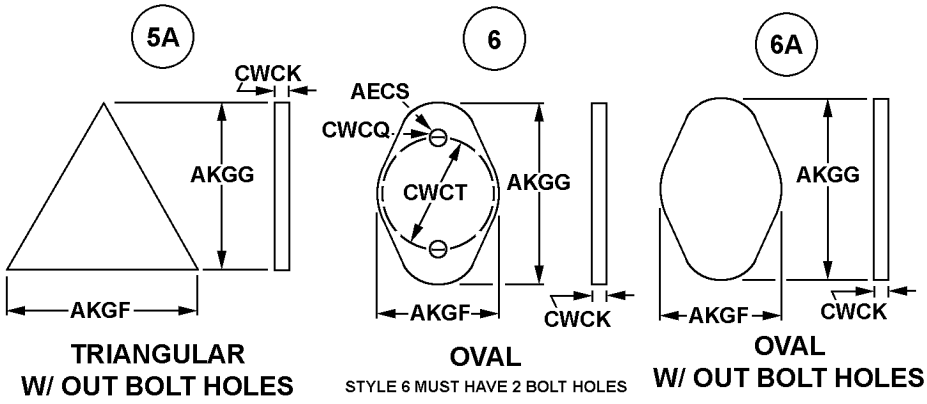
Enter the numeric value. (e.g., AECSA2; AECSA2$$A4).

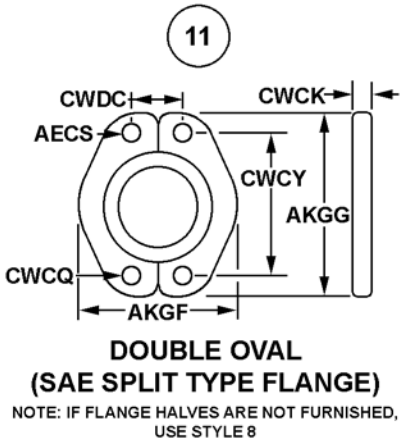
MRC	Mode Code	Name of Dimension
AECS	A	BOLT HOLE QUANTITY

REFERENCE DRAWING GROUP H

FLUID END FLANGE SHAPE STYLES




5A
CWCK
AKGG
AKGF
TRIANGULAR
W/ OUT BOLT HOLES
6
AECS
CWCQ
CWCT
AKGG
AKGF
CWCK
OVAL
STYLE 6 MUST HAVE 2 BOLT HOLES
6A
AKGG
AKGF
CWCK
OVAL
W/ OUT BOLT HOLES


11
CWDC
CWCK
AECS
CWCY
AKGG
CWCQ
AKGF
DOUBLE OVAL
(SAE SPLIT TYPE FLANGE)
NOTE: IF FLANGE HALVES ARE NOT FURNISHED,
USE STYLE 8

REFERENCE DRAWING GROUP J Tables
UNTHREADED FLUID PASSAGE BOLT CONNECTIONS

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from the table below, followed by the numeric value, including the end connection. (e.g., CXGPJA0.750*; CXGPJL19.0*; CXGPJA0.500$$JA0.750*)

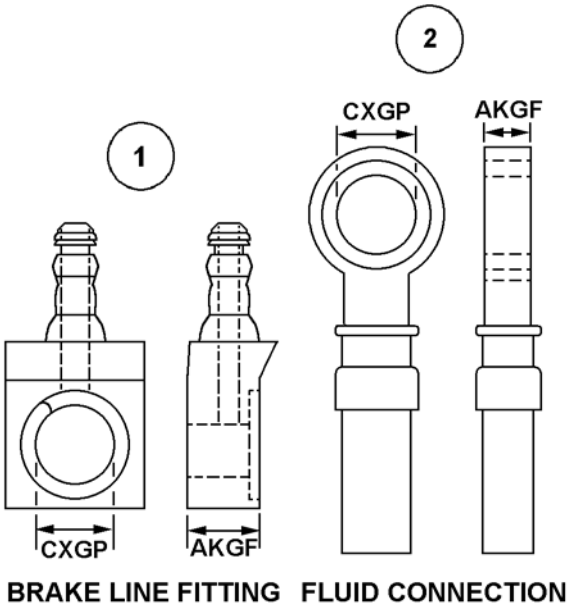
REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS

MRC	Mode Code	Name of Dimension
CXGP	J	NOMINAL HOLE DIAMETER
AKGF	J	NOMINAL WIDTH

REFERENCE DRAWING GROUP J

END CONNECTIONS

UNTHREADED PASSAGE BOLT

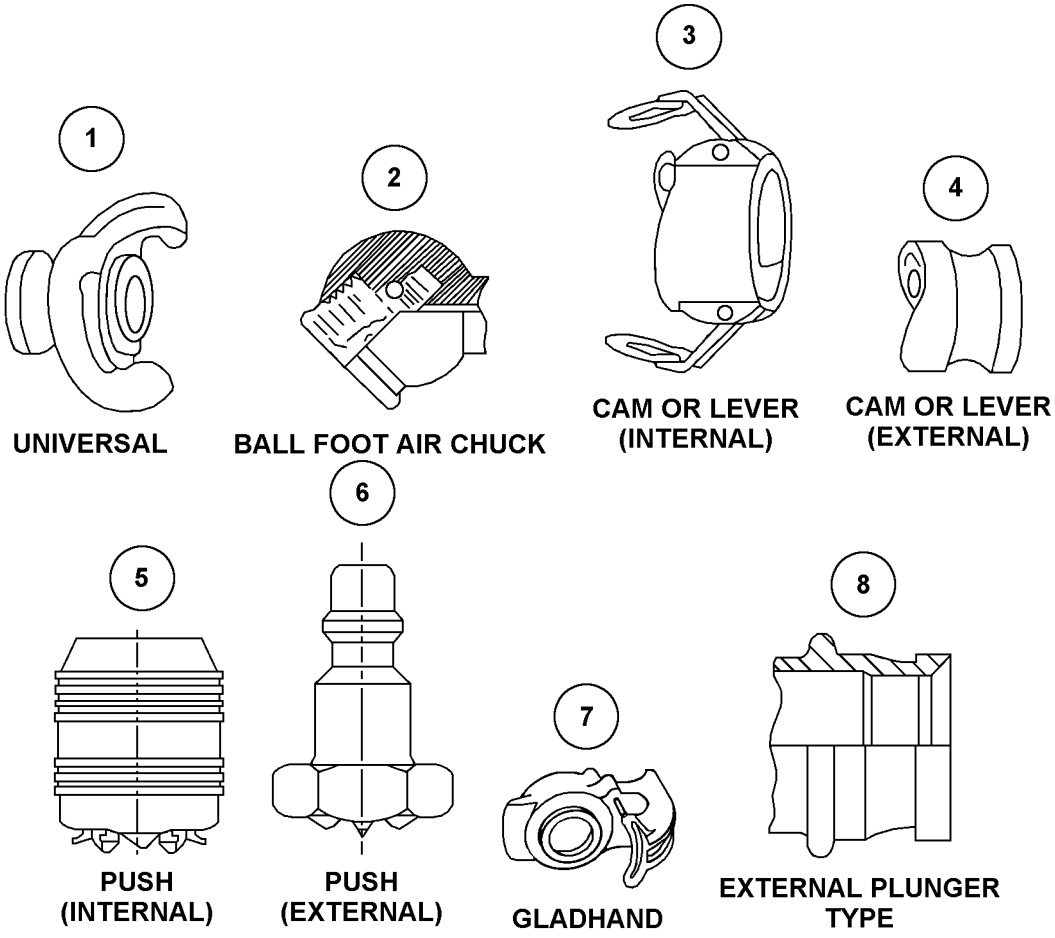


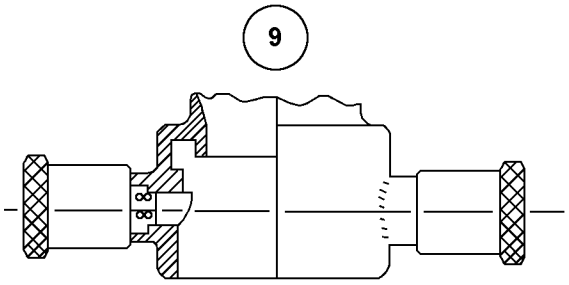
REFERENCE DRAWING GROUP K

END CONNECTIONS

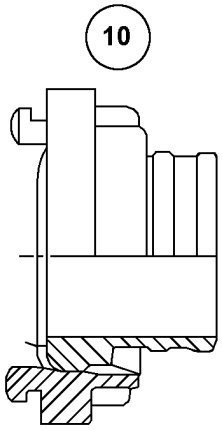
QUICK DISCONNECT TYPE

(No Requirements)

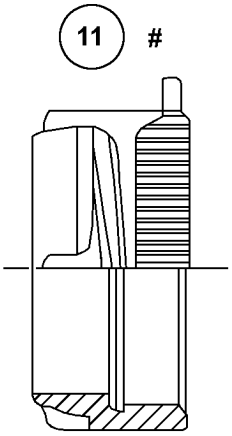




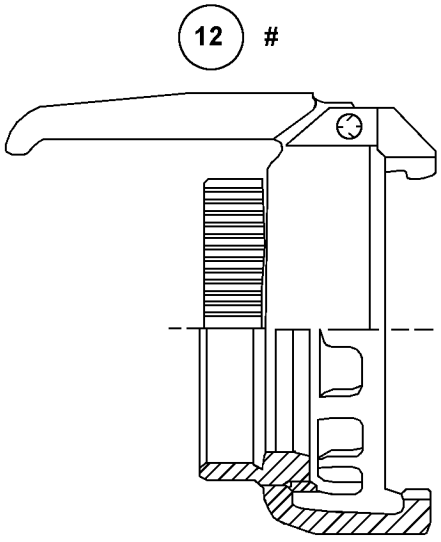
INTERNAL PLUNGER TYPE



CAM (EXTERNAL)



TANK CAR COUPLING (EXTERNAL)



TANK CAR COUPLING (INTERNAL)

FIIG Change List

FIIG Change List, Effective November 6, 2009

Added reply code FNY- ROHS DIRECTIVE COMPLIANCE - to MRC CBBL.